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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: § Group Art Unit: 2171
Robert E. Cypher and §
Ashok Singhal § Examiner: Unknown
§
Serial No.: 10/601,402 §
§
Filed: June 23, 2003 §
§
For: Multiprocessing System Employing § Atty Dkt.: 5181-99401
Address Switches to Control Mixed §
Broadcast Snooping and Directory §
Based Coherency Protocols §
Transparent to Active Devices §
§
I hereby certify that this correspondence is being deposited with the
U.S. Postal Service as First Class Mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-
1450, on the date indicated below:

B. Noel Kivlin
Name of Registered Representative
1-21-05 Date
Signature

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant requests consideration of the references listed on the attached Form PTO-1449 and/or the additional information identified below in paragraph 3.

- Pursuant to CFR §1.98(a)(2)(i), copies of the cited U.S. patents and/or U.S. patent application publications are not enclosed.
- A copy of each non-U.S. patent and/or non-U.S. patent application publication reference listed on the Form PTO-1449 is enclosed.
- The non-U.S. patent and/or non-U.S. patent application publication references listed on the Form PTO-1449 were previously cited in application serial no. _____ to which the captioned application is seeking priority under 35 U.S.C. §120; therefore, a copy of each reference is not enclosed.

1. This Information Disclosure Statement is submitted:

- a.
 - within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
 - within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
 - before the mailing date of a first Office Action on the merits; or
 - before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

- b. after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: the certification of paragraph 2 below is provided, or a fee of \$180.00 is enclosed.
- c. after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

- that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.

3. Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

U.S. Patent Application serial no. 10/136,619 filed May 1, 2002.

4. For each non-English language reference listed on the attached Form PTO-1449:

- reference is made to an English language translation submitted herewith, and/or
- reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or
- reference is made to the concise explanation set forth below:

5. Applicant also offers the following comments for the Examiner's consideration:

6. Also enclosed is a copy of a foreign search report citing these references.

7. The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a

communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

8. Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5181-99401.

Respectfully submitted,



B. Noël Kivlin
Reg. No. 33,929

Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C.
P.O. Box 398
Austin, TX 78767-0398
(512) 853-8800
Date: 1-21-05

Form PTO-1449 (modified 25 2005) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5181-99401 APPLICANT: Cypher, et al FILING DATE: June 23, 2003	SERIAL NO. 10/601,402 GROUP: 2171
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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE APPROPRIAT
	B1	6,209,064	3/27/01	Weber			
	B2	6,088,768	7/11/00	Baldus, et al			
	B3	5,802,582	9/1/98	Ekanadham, et al			
	B4	5,761,721	6/2/98	Baldus, et al			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	B5	“Specifying and Verifying a Broadcast and a Multicast Snooping Cache Coherence Protocol”, Sorin, et al, <u>IEEE Transactions on Parallel and Distributed Systems</u> , Vol. 13, No. 6, June 2002, http://www.cs.wisc.edu/multifacet/papers/tpds02_lamport.pdf
	B6	“Multicast Snooping: A New Coherence Method Using a Multicast Address Network”, Bilir, et al, <u>The 26th International Symposium on Computer Architecture</u> , IEEE, Atlanta, GA, May 2-4, 1999, http://csdl.computer.org/comp/proceedings/isca/1999/0170/00/01700294abs.htm
	B7	“Architecture and Design of AlphaServer GS320”, Gharachorloo, et al, <u>ACM Sigplan Notices</u> , Volume 35, Issue 11, November 2000, http://portal.acm.org/citation.cfm?id=356991&dl=ACM&coll=portal
	B8	“View Caching: Efficient Software Shared Memory for Dynamic Computations”, Karamcheti, et al, <u>11th International Parallel Processing Symposium</u> , Geneva, Switzerland, April 1-5, 1997, http://ipdps.eece.unm.edu/1997/s13/318.pdf
	B9	“Cache-Coherent Distributed Shared Memory: Perspectives on Its Development and Future Challenges”, Hennessy, et al, <u>Proceedings of the IEEE</u> , Vol. 87, Issue 3, March 1999, ISSN 0018-9219, http://cva.stanford.edu/cs99s/papers/hennessy-cc.pdf
	B10	“Survey on Cache Coherence in Shared & Distributed Memory Multiprocessors”, Garg, et al, Online, http://www.cse.psu.edu/~cg530/proj03/cache_coherence.pdf
	B11	“A Survey of Cache Coherence Mechanisms in Shared Memory Multiprocessors”, Lawrence, Department of Computer Science, University of Manitoba, Manitoba, Canada, May 14, 1998, http://www.cs.uiowa.edu/~rlawrenc/research/Papers/cc.pdf
	B12	“Bandwidth Adaptive Snooping”, Martin, et al. <u>8th Annual International Symposium on High-Performance Computer Architecture (HPCA-8)</u> , Cambridge, MA, February 2-6, 2002.
	B13	“Timestamp Snooping: An Approach for Extending SMPs”, Martin, et al., <u>9th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS-IX)</u> , Cambridge, MA, November 13-15, 2000.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.